

LGT: CV

(NY 4827)

Induced Predissociation in the Visible Spectrum
of Bromine, by L. Avramenko, V. Kondrat'ev,
10 pp.

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JPRS 7237

Sci - Phys

135,821

Dec 60

(NY-4827)

The Absorption of Light by Gases During Low
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No 2, 1937, pp 256-264.

JPRS 7116

Sci - Phys

Dec 60

135,838

The Influence of Deformation on the Diffusion of
Mercury Into Zinc, b M. A. Bol'shanina, V. A. Pavlov.

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AEC Tr 559

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Scientific - Physics

Aug 1951 CTS

Electron Gas in a Magnetic Field, by
Ye. M. Lifshits.
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*NASA TT F-479

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May 67

PAVLOV, V. I.
STANDARTS, S. V.

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109 - 123; 124 - 129.

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Zh Ek i Teoret Fiz Vol 7, pp 477-82, 1937

Intensities of electronic spectra of diatomic molecules,
by V. Kondrat'ev

AEC/ BNL/ Tr 122

(NY-4827)

Air Afterglow and Thermal Radiation of Nitrogen Peroxide, by V. M. Kondrat'yev, 8 pp.

RUSSIAN, per, Zhur Eksp. i Teoret. Fiz., Vol VII, No 5, 1937, pp 645-649.

JPRS 7234

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Vol 7, No. 6 (Jun '37) pp 696-713 (¹⁷ pages)

"The Formation of Electron Pairs
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B.V. Tisea

Proj. # 5480

{A-1273} 1

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SR 24⁴ May '50.

(NY-4827)

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JPBS 7235

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On Plastic Deformation (of Rocksalt), by N. A.
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NASA TT F-479

Sci-Electr
Jul 67

332,869

(NY-4827)

The Quantum Sensitivity of the Spectrographic
Method of Recording Radiation, by V. N.
Kondrat'ev, 4 pp.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol VII,
No 12, 1937, pp 1360, 1361.

JPRS 7220

Sci - Phys

135,833

Dec 60

Sound Absorption in Solids, by G. L. Slonimskiy.

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Limiting Principles of Freely-Rising Convective
Streams, by Ya. B. Zel'dovich, 6 pp.

RUSSIAN, per, Zhur Khasper i Teoret Fiz, Vol VII,
No 12, 1937, pp 1463-1465.

JPRS 7217

135,835

Sci - Phys

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Limiting Principles of Heat Transfer in an
Internal Problem at Low Velocities, 6 pp.

RUSSIAN, per, Zhur Ekaper i Teoret Fiz, Vol VII,
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JPRS 7230

Sci - Phys

Dec 60

135, 8/6

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Vol VIII, No 3, 1938, pp 291-318.

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Investigation of a Directed Beam of High-Speed Electrons Through Mercury Vapors in a Heated-cathode Discharge Tube, by V. Polin, S. Gvozdozor.

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NASA TT F-370

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Mar 66

297,196

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Vol 8, No 6, 1938

pp 717-723

On the ~~anis~~ Anisotropy of the Hall Effect in
Monocrystals of Zinc and ~~and~~ Cadmium.
by M. K. Noskov

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Vol 8, 1938 pp 894-906

The Scattering of Slow Neutrons in a Crystalline
Lattice, by I. Pomeranchuk.

Trans AEC

Collisions of Deuterons With Nuclei, by E. Lifshits,
22 pp.

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May 57

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Displacement of the Curie Point With Pressure, by
O. I. Leypunskiy, 9 pp.

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JPRS 4059

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Diffraction of Molecules, by D. Blokhintsev, 12 pp.

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DESCRIPTORS: Fluorescence, Air, Metals, X-Rays,
X-ray photography

(Unannounced)

62-16098

1. Krasnikov, A. I.

Office of Technical Services

Vadilo, P.
THE EFFECT OF TEMPERATURE OF THE
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AND THE CAUSE OF FORMATION OF NEEDLE-
SHAPED CRYSTALS, [1963] 9p. 2 refs.
Order from OTS or SLA \$1.10

63-14605

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DESCRIPTORS: *Crystal growth, Temperature,
Solutions, *Crystals.

(Physics--Solid State, TT, v. 10, no. 7)

63-14605

I. Vadilo, P.

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Heat Capacity of Ammonium Iodide Under Pressure.
by S. A. Zlunitsyn.

AEC Trans (avail. Brookhaven)

Electron Drift in Plasma, by Kh. M. Fataliyev.
G. V. Spivak, et al.
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Teoreticheskoy Fiziki, Vol 9, No 2, 1939,
pp 167-175. 9231708
NASA TT F-371

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Mar 66

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Energy of Calcite, by F. Kaner, 11 pp.

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SLA 59-10504

Sci - Phys
Sep 59
Vol 2, No 1

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On the Absorption of X-Rays by Metals, by A. I.
Kontarev, 32 pp.

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No 3, 1939, pp 267-279.

SLA 59-10971

Sci • Physics
Sep 59
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The Theory of the Equation of State, by S. N.
Tkachenko.

RUSSIAN, per, Zhury Ekspert i Teoret Fiz, ^V Vol IX,
No 5, 1939, pp 573-585.

ATB BJ-1729
ATB 80K22R

Sci - *Phys*
Jul 59

90, 460

Theory of Current in Vacuum. I. The Case of
Plane Parallel Electrodes, by S. V. Beliaustin.

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ABC Tr 3650

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At-1

FATALIEV L.

Influence of a weak magnetic field on a plasma

Einfluss eines schwachen Magnetfeldes auf das Plasma

Zhur. Eksptl'. i Teoret. Fiz., 9, No. 7, 813-823 (1939)

Ph, 1960/61, No. 142 - German

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Theory of Current in a Vacuum, III. Case of Spherical Electrodes, by S. V. Beliyustin, 12 pp.

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ABC Tr

3762

Sci - Phys

Oct 59

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The Shape of a Mechanical Twin and the Causes
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Yakovleva, 10 pp.

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Sci Museum Lib No 51/3273 -London

NLL M.2632

Sci-Physics

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On the Criterion for Single Scattering of Fast
Electrons, by L. Artsimovich.

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Scientific - Nuclear Physics

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Pines, B. J.
THERMODYNAMICS OF THE PHASE TRANSITIONS
OF THE SECOND ORDER. [1962] 12p. 4 refs.
Order from OTS or SLA \$1.60 62-18690

Trans. of [Zhurnal Eksperimental'noi i Teoreticheskoi
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DESCRIPTORS: *Phase transitions, *Thermodynamics,
Phase studies, *Equations of state, Differential equations,
Temperature, Pressure, Entropy, Volume.

Transitions of the second order are considered as
taking place in a finite interval of temperature and
pressure resulting in a finite change in entropy and
volume. Validity of the Ehrenfest's equation along the
whole transition path has been demonstrated (for the
increase in the values of heat capacity and coefficients
of expansion and compressibility connected with the
(Physics--Thermodynamics, TT, v. 9, no. 10) (over)

62-18690

I. Pines, B. J.

Office of Technical Services

62-27305

Sena, L. A.

METHODEN DER MESSUNG DER EFFEKTIVEN
QUERSCHNITTE DER WECHSELWIRKUNG
ZWISCHEN IONEN UND ATOMEN IM GAS (Methods
of Measuring the Effective Cross Sections of the
Interaction between Ions and Atoms in Gases). 14p.
Order from TIB \$2.35

Trans. in German of Zhurnal Eksperimental'noi i
Teoreticheskoi Fiziki (USSR) 1939 [v. 9] no. 9,
p. 1061-1068.

DESCRIPTORS: Measurement, *Ions, *Atoms,
Gases, *Proton cross sections.

(Nuclear Physics and Nuclear Chemistry, TT, v. 9,
no. 11)

I. Sena, L. A.
II. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

Rudenko, N. S.
VISCOSITY OF LIQUID O_2 , N_2 , CH_4 , C_2H_4 AND AIR,
tr. by Donald C. Rich. 17 Aug 62 [10]p. 9 refs.
[AMC] (Redstone) Trans-nr 32-62.
Order from OTS or SLA \$1.10

62-32586

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki (USSR) 1939, v. 9, no. 9, p. 1078-1080.

DESCRIPTORS: *Liquefied gases, *Oxygen, *Nitrogen,
*Methanes, *Ethylene, Air, Viscosity, Oscillation,
Measurement, Low temperature research.

Values of the viscosity of pure O_2 , N_2 , CH_4 , C_2H_4
and air were measured in a wide interval of tempera-
tures--from the boiling point under normal pressure
up to a temperature which is close to critical. The
method of measuring is based on observation of the
damping of torsional oscillations of a cylinder, sus-
(Mechanics--Hydrodynamics, TT, v. 9, no. 8) (over)

62-32586

- I. Rudenko, N. S.
- II. AMC (Redstone)
Trans-32-62
- III. Army Missile Command,
Redstone Arsenal, Ala.

Office of Technical Services

Bresler, S. E. and Frenkel, Ya. I.
CHARACTER OF THERMAL MOTION OF LONG
ORGANIC CHAINS WITH REFERENCE TO THE
ELASTIC PROPERTIES OF RUBBER. [1961] [6p] 6 refs.
Order from CTS, SLA, or ETC \$1.10 TT-61-16972

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki (USSR) 1939, v. 9, p. 1094-1106.

TT-61-16972

I. Bresler, S. E.
II. Frenkel, Ya. I.

(Materials--Rubber, TT, v. 12, no. 4)

Office of Technical Services

The Effect of the Magnetic Field Upon the Electrical Resistance of Single Crystals of Zinc and Cadmium at Low Temperatures. Part II, by B. G. Lazarev, N. M. Nakhimovich, E. A. Parfenova, 6 pp. UNCLASSIFIED

Full translation.

RUSSIAN, bimo per, Zhur Ekspoz 1 Teoret, Vol IX, No 10, USSR, 1939, pp 1182-1187.

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Scientific - Physics, Zinc, Cadmium

Seq 52 CTS/DEX

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Theoret Fiz, Vol IX, No 11, 1939, pp 1320-1331.
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AEC-Tr-5615

Sci -- Phys

Apr 63

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On the Thermal Theory of Cathode Sputtering, by
S. V. Lantilev, 6 pp.

1/8

RUSSIAN, par, Zhur Eksper i Teoret Fiz, Vol 9 (12),
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Sci Museum Lib No ~~1469~~ 51/2646 - London

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Thermal Theory of Electron ~~EX~~ Emission under the Impact of
Fast Ions, by S. V. Igmailov.

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AEC Tr 1090

Sci - Nuclear Physics

Doc 51 (TS

On the Problem Concerning the Nature of Cathode
Diffusion and Kinetic Emission of Secondary
Electrons, by N. D. Morgulis, 24 pp.

RUSSIAN, no per, Zhur Eksp. i Teoret. Fiz., Vol IX,
No 12, 1939, pp 1484-1494.

ATIC F-TS-8321

Scientific - Physics

ATIC 172519

CIA 2522255

15,123
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Agency: Picatinny Arsenal
P.O.: Req. 123-70

R-11703-D
1 June 1970

Title: Absorption Spectra & Photochemical Decomposition
of Nitrobenzene Vapors. pp. 1527 to 1529.

Author: Stalagova, O.M.

Source: J. Exptl. Theoret. Phys. U.S.S.R. (JETP Letters)
Vol. 9. (1939). 3pp

Language: Russian.

Special Instruction: Please translate & type 1 copy only

Zal'dovich Ya.

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THEORY OF IGNITION BY A HOT SURFACE (Teoriya
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Order from OTS or SLA \$1.60

63-10878

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DESCRIPTORS: *Ignition, Gases, Surface temperature,
*Autoignition, *Thermal conductivity, *Partial differ-
ential equations, Numerical analysis.

(Physics--Thermodynamics, TT, v. 10, no. 5)

63-10878

I. Zal'dovich, Ya.

CIA/FDO X-2100

Office of Technical Services

Zh Ek i Teoret Fiz Vol 10, page 29-36 (1940)

The chain decomposition of uranium by slow neutrons.
by Ya. B. Zel'dovich and Yu. B. Khariton.

AEC Trans (avail Brookhaven)

The Thermal and Electrical Conductivity of
Alkali Metals in the Liquid and Solid States, by
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No 1, 1940, pp 40-57.

Sci. Trans Center
RT 2173

Scientific - Physics

Jan 55 CTS/DEX

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Kinetics of chain decomposition of uranium.
by Ya. B. Zel'dovich and Yu. B. Khariton.

AEC Trans(avail Brookhaven)

KT-963

(NY-4822)

Application of Propagation Theory of an Arbitrary
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RUSSIAN, per, ~~Zhur Eksp~~ i Teoret Fiz, Vol X, No 5.
1940, pp 569-575.

JPRS 5508

Sci - Phys

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(May 1940) #5 (576-580 pp)

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the Acad Sci USSR"

by M.S.Sominskiy

Russian - A-2554.1

Proj.. 9152

TD-date: 6 Jun '51

U-report

Nowinska deliv June 1

(10-page translation
checked by AK)

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Quantum Theory of the Radiation of Light of
an Electron with Uniform Motion in a Medium,
by V. L. Ginzburg, 32pp
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Teoreticheskoi Fiz, Vol 10, 1940, No 6,
pp 589-600
SLA TT-64-16955

Sci - Phy
May 67

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On the Theory of Diffusion in Solid Bodies,
by G. P. Il'kevich,
RUSSIAN, per, Zhur. Eksperim. i Teor. Fiz.
no. 10, 1940, pp. 659-665
*CFSTI TT 70-57024

Sci/-phys
Feb 70

Incomplete Separation of Variables for Bivalent
Atoms, by V. A. Fok, M. G. Veselov, M. I. Petrashen',
23 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol X, 1940,
pp 723-739.

AEC Tr 4010

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Sci - Phys
Jun 60

Effect of Surface Roughness of a Tube on the
Origination and Propagation of Detonations in Gases,
by K. I. Shchelkin, 10 pp. UNCLASSIFIED

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ATIC: P-TS-8322

Scientific - Physics

ATIC 173725

CIA 2583258

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Twining of Sodium Nitrate by Plastic Deformation, by
R. I. Garber, 2 pp. UNCLASSIFIED.

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828, 829, Encl to HA LONDON, Ser. MAR-6-54.

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Scientific - Physics

19, 283

(NY-4822)

Theory of Nuclear Breakup, by Ya. B. Zel'dovich,
E Yu. A. Zysin, 11 pp.

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No 8, 1960, pp 831-834.

JPRS 5509

Sci - Nu Phys

Dec 60

134,420

Photochemical Oxidation of Carbon Disulfide Vapors,
RUSSIAN (UNCLASSIFIED), V. Kondrat'ev, A. Yakovleva.]

RUSSIAN, per, Zhur Ek 1 Tek Fiz, No 10, 1940,
pp 1038-1042. ^{SECRET} ^{Vol}

Assoc Tech Ser, RJ-74
Price: \$11.60 (\$1.60)

Scientific - Chemistry

17,850

Zeldovich, [Ya.] B., and Semenov, N. N.

KINETICS OF CHEMICAL REACTIONS IN FLAMES:
THE THEORY OF FLAME PROPAGATION. I. [AND]
RATIONAL FORMULAE FOR THE DEPENDENCE OF
THE FLAME VELOCITY ON THE PARAMETERS. II
(Kinetika Khimicheskikh Reaktsii v Plamenakh).
Aug 47 [31]p. 38 refs. BISI-318; [DSIR LLU] M.2773.
Order from OTS or SLA \$3.60 61-23306

Trans. of [Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki] USSR 1946 [v. 10] no. 9/10, p. 1116-1136.

Another translation of pt. I is available from SLA as
RT-402.

DESCRIPTORS: *Reaction kinetics, Chemical reactions,
Flames, *Flame propagation, Propagation, Mathemati-
cal analysis.

A theory of flame propagation is developed and the be-
haviour of the chain processes taking place in the
flames is investigated. The basis of the method of
(Chemistry-Physical, IT, v. 6, no. 6) (over)

61-23306

I. Zeldovich, Ya. B.
II. Semenov, N. N.
III. Title: Theory ...
IV. Title: Rational ...
V. BISI-318
VI. DSIR LLU M.2773
VII. British Iron and Steel
Industry Translation
Service

SCU RT402
CIA D 472436
176650

Office of Technical Services

The Cold-Brittleness of Steel in Torsion, by F. F.
Vitzman, N. M. Davidenkov, N. A. Zlatin, 12 pp.

RUSSIAN, per, Zhur Eksper i Teoreti Fiz, Vol X,
No 9/10, 1940, pp 1137-1145.

SLA 59-10815

Sci - Minerals/Metals

Sep 59

Vol II, No 2

98,661

The Dependence of the Critical Shear Stress for
Twinning and Slip in Crystals of Cadmium on the
Specimen Diameter, by E. S. Yakovleva,
M. V. Yakutovich, 7 pp.

RUSSIAN, no per, Zhur Eksp i Teoret Fiz,
Vol X, 1940, pp 1146-1150.

AEC Tr 2264

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Scientific -~~atomic~~ Physics
Nov 55 CTS/DEX

Formation of Negative Ions of Halide During
Reaction of Alkali-Halides With Surfaces of
Glowing Tungsten, by V. M. Dukel'skiy,
N. I. Ionov.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol X,
1940, pp 1248-1256.

SLA 63-14464

Sci - Chem, Phys
6 Feb 63

Concerning Genesis of Centers of Crystallization
in Supercooled Liquids. II. Crystallization of
Organic Substances in Ultrasound Field, by V. I.
Danilov, B. M. Teverovskiy, 11 pp.

RUSSIAN, per, Zhur. Eksper i Teoret Fiz, Vol X,
No 11, 1940, pp 1305-1310.

S.L.A. Tr No R-317

Sci - Chemistry
Apr 57

#6,841

(NY-4822)

One Property of Contacts, by Ya. B. Zel'dovich,
Yu. B. Khariton, 5 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol X,
No 12, 1940, pp 1422, 1423.

JPRS 5511

Sci - Phys

134,426

Dec 60

The Nature of Ball Lighting, by Ya. I.
Frenkel, 3 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz,
Vol X, 1940, pp 1424-1426.

CIA/FDD/Z-214

Sci - Physics

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The Kinetics of Chemical Reactions in Flows III.
The Mechanism of CO Combustion, 19 pp. by Ya. D.
Zel'dovich and N. N. Semenov

ZHVR E-7-112
ES RUSSIAN, per, J. Exptl and Theoret. Phys. 10,
1427-40, (1949) (1940)

Avail Armed Services Tech
Info Agency as ATI 83148

1541

Scientific - Physics

(HY-4822)

The Kinetics of Formation of Two-Phase Systems Near
the Critical Point, by Ya. B. Zel'dovich, O. M.
Todes, 12 pp.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol X,
No 12, 1940, pp 1441-1445.

JPRS 5510

Sci - Phys

134,427

Dec 60

Theory of the Fine Structure of Absorption Lines of
X-Ray Spectra of Solids, by A. I. Kostarev, 31 pp.

RUSSIAN, per, Zhur Eksperimental i Teoret Fiz,
Vol XI, No 1, 1941, pp 60-73.

SLA 59-10972

Sci.
Nov 59
Vol 2, No 3

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